

WHAT IS CLAIMED IS:

1 1. Fluorescent composition for manufacturing single- and multilayer optical discs of CD
2 ROM, DVD and WORM types with fluorescent reading, comprising:

- 3 - fluorescent dye,
4 - film-forming polymer,
5 - plasticizer, and, if necessary,
6 - surfactant, and
7 - light stabilizer.

1 2. Fluorescent composition of claim 1, distinguished by choosing the fluorescent dye
2 among xanthene dyes of the eosine and rhodamine groups, acridine, oxazine, azine,
3 perylene, violanthrole, cyanine, phthalocyanine dyes, indigoid colors and porphyrines.
4 Content of the fluorescent dye in the layer is 0.1-10%.

1 3. Fluorescent composition of claim 1, distinguished by choosing the film-making
2 polymer among the resins, including cellulose esters, such as nitrocellulose, cellulose
3 acetate, cellulose acetate butyrate; cellulose ethers such as methyl cellulose, ethyl
4 cellulose, butyl cellulose; vinyl resins such as polyvinyl acetate, polyvinyl butyral,
5 polyvinyl acetal, polyvinyl alcohol and polyvinyl pyrrolidon; acrylic resins such as
6 polymethylmethacrylate, polybutyl acrylate, polymethacrylic acid, polyacrylic amid and
7 polyacrylonitrile and their mixture.

1 4. Fluorescent composition of claim 1, distinguished by choosing the plasticizer among
2 phthalates (dibutyl phthalate, dioctyl phthalate at al) and phosphates (triphenylphosphate,
3 tricresylphosphate at al). Content of the plasticizer in the layer is 10-50%.

1 5. Method of producing the optical disc by solvating the compounds of claim 1 in an
2 organic solvent chosen among alcohols, ketones, amides, sulfoxides, ethers, esters,
3 halogenated aliphatic hydrocarbons or aromatic solvents, then dispersing the received
4 composition by spin coating, roller coating or dip coating on a substrate, which is a
5 polycarbonate or polyethylene therephthalate disc, or on a primer.

